US009156579B2

(12) **United States Patent**
Pinkstone

(10) **Patent No.: US 9,156,579 B2**
(45) **Date of Patent: Oct. 13, 2015**

(54) **CARTON WITH RECLOSEABLE FEATURES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/325,609**

(22) Filed: **Jul. 8, 2014**

(65) **Prior Publication Data**

US 2015/0014402 A1 Jan. 15, 2015

Related U.S. Application Data

(60) Provisional application No. 61/957,651, filed on Jul. 9, 2013.

(51) **Int. Cl.**

B65D 5/355	(2006.01)
B65D 5/66	(2006.01)
B31B 1/74	(2006.01)
B65D 5/42	(2006.01)
B65D 5/54	(2006.01)

(52) **U.S. Cl.**

CPC ***B65D 5/0005*** (2013.01); ***B31B 1/74*** (2013.01); ***B65D 5/4204*** (2013.01); ***B65D 5/5445*** (2013.01); ***B65D 5/66*** (2013.01)

(58) **Field of Classification Search**

USPC 229/101.2, 221, 125.08, 120.09, 229/120.03; 206/774; 221/32

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,772,625	A	8/1930	Caulfield
2,139,021	A	12/1938	Johnson
2,192,722	A	3/1940	Vogt
2,251,283	A	8/1941	Johnson
2,292,573	A	8/1942	Kondolf
2,335,913	A	12/1943	Buttery
2,337,892	A	12/1943	Hultin
2,345,486	A	3/1944	Nathan
2,355,665	A	8/1944	Mabee
2,365,159	A	12/1944	Walton et al.
2,396,310	A	3/1946	Gibson
2,437,926	A	3/1948	Ball et al.

(Continued)

FOREIGN PATENT DOCUMENTS

DE	29 23 455 A1	12/1980
DE	81 10 323.9	9/1981

(Continued)

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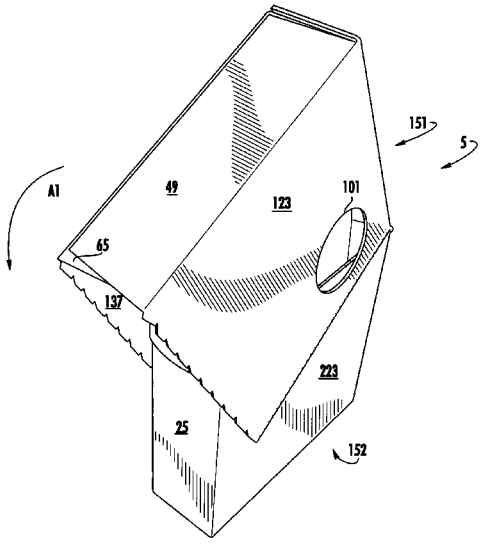
(57) **ABSTRACT**

A carton for holding a product. The carton having a plurality of panels that extends at least partially around an interior of the carton, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel. A tear away panel in at least one of the plurality of panels, the tear away panel providing access to the interior. A hinge in at least one of the plurality of panels and at least one tear line extending at least partially across at least one of the plurality of panels. The at least one tear line dividing the carton into a first portion and a second portion. The first portion configured to be pivotable at the hinge between an open position allowing access to the interior and a closed position with the first portion at least partially overlapping the second portion.

37 Claims, 12 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

2,475,677	A	7/1949	Ringler
2,509,289	A	5/1950	Dunning
2,594,394	A	4/1952	Cassekman et al.
2,973,086	A	2/1961	Thompson
3,013,712	A	12/1961	Wollaeger
3,021,002	A	2/1962	Guyer
3,033,362	A	5/1962	Marcalus
3,133,688	A	5/1964	Asman
3,180,556	A	4/1965	Asman
3,302,847	A	2/1967	Hennessey
3,347,446	A	10/1967	Reynolds et al.
3,355,089	A	11/1967	Champlin
3,363,822	A	1/1968	Maulini et al.
3,426,955	A	2/1969	Olson
3,426,956	A	2/1969	Frohlicher
3,486,682	A	12/1969	Whipperman
3,578,234	A	5/1971	Marchisen
3,669,345	A	6/1972	Cole
3,680,766	A	8/1972	Collura et al.
3,690,544	A	9/1972	Meyers
3,744,702	A	7/1973	Ellison
3,768,719	A	10/1973	Johnson
4,262,816	A	4/1981	Margulies
4,344,537	A	8/1982	Austin
4,484,683	A	11/1984	Werner, Jr.
4,508,218	A	4/1985	Focke et al.
4,512,476	A	4/1985	Herrington, Jr.
4,558,785	A	12/1985	Gordon
4,572,423	A	2/1986	Spencer
4,584,202	A	4/1986	Roccaforte
4,621,736	A	11/1986	Roccaforte
4,645,108	A	2/1987	Gavin et al.
4,676,394	A	6/1987	Hiersteiner
4,746,019	A	5/1988	Prater
4,768,703	A	9/1988	Sosler et al.
4,771,936	A	9/1988	Dolby
4,863,052	A	9/1989	Lambert
4,905,898	A	3/1990	Wade
4,948,038	A	8/1990	Moeller
5,105,971	A	4/1992	Hertenstein et al.
5,265,799	A	11/1993	Stone
5,292,058	A	3/1994	Zoss et al.
5,347,865	A	9/1994	Mulry et al.
5,356,022	A	10/1994	Tipps
5,363,981	A	11/1994	Giblin et al.
5,402,933	A	4/1995	Behrmann
5,427,267	A	6/1995	Willman
5,632,402	A	5/1997	Walsh et al.
5,632,404	A	5/1997	Walsh
5,746,871	A	5/1998	Walsh
5,783,030	A	7/1998	Walsh
5,794,811	A	8/1998	Walsh
5,794,812	A	8/1998	Walsh
5,857,614	A	1/1999	Walsh
5,911,359	A	6/1999	Stone et al.
5,918,799	A	7/1999	Walsh
5,960,555	A	10/1999	Deaton et al.
5,996,797	A	12/1999	Flaig
6,050,484	A	4/2000	Galomb
6,062,467	A	5/2000	Ours et al.
6,102,277	A	8/2000	Krapohl, Sr.
6,145,736	A	11/2000	Ours et al.
6,206,279	B1	3/2001	Countee
6,352,096	B1	3/2002	Walsh
6,364,202	B1	4/2002	Zelley
6,386,438	B1	5/2002	Walsh et al.
6,419,151	B1	7/2002	Urtubey
6,520,404	B1	2/2003	Waldburger et al.
6,568,586	B1	5/2003	VanEsley et al.
6,761,269	B2	7/2004	Hamming
6,854,639	B2	2/2005	Walsh
6,869,009	B2	3/2005	Sutherland et al.
6,913,190	B2	7/2005	Ruhbusch et al.
7,025,504	B2	4/2006	Olin
7,036,714	B2	5/2006	Walsh et al.
7,210,612	B2	5/2007	Walsh et a
7,306,135	B2	12/2007	DeBusk et al.
7,407,087	B2	8/2008	DeBusk et al.
7,503,475	B2	3/2009	McGowan
D597,835	S	8/2009	Kwon et al.
7,699,214	B2	4/2010	Mestre et al.
7,703,665	B2	4/2010	McGowan
7,913,897	B2	3/2011	Manaige
7,959,060	B2	6/2011	Wilson et al.
8,002,171	B2	8/2011	Ryan et al.
8,061,585	B2	11/2011	Nikolai et al.
8,672,214	B2	3/2014	Manaige
2001/0048022	A1	12/2001	Zoeckler
2002/0036153	A1	3/2002	Yang
2002/0055429	A1	5/2002	Walsh
2003/0144121	A1	7/2003	Walsh et al.
2004/0007614	A1	1/2004	Saulas
2004/0226989	A1	11/2004	Cook et al.
2005/0109827	A1	5/2005	Martin
2005/0127150	A1	6/2005	Walsh et al.
2005/0187087	A1	8/2005	Walsh
2005/0274782	A1	12/2005	Petrelli et al.
2006/0049067	A1	3/2006	McDonald
2006/0054675	A1	3/2006	Bennett
2006/0243783	A1	11/2006	Spivey et al.
2006/0255105	A1	11/2006	Sweet
2006/0255107	A1	11/2006	Wright
2006/0266810	A1	11/2006	Foushee
2007/0235511	A1	10/2007	Fitzwater et al.
2007/0295793	A1*	12/2007	Ho Fung et al. 229/122.1
2009/0001145	A1	1/2009	Hasse et al.
2009/0045084	A1	2/2009	Roila et al.
2010/0019022	A1	1/2010	Ryan et al.
2010/0102114	A1	4/2010	Pinkstone
2010/0193575	A1	8/2010	Fontaine et al.
2010/0288657	A1	11/2010	Pinkstone
2011/0095075	A1	4/2011	Pinkstone
2011/0180594	A1*	7/2011	Fitzwater 229/120.24
2012/0118904	A1	5/2012	Fitzwater et al.
2013/0193197	A1	8/2013	Low et al.
2014/0175095	A1	6/2014	Pinkstone

FOREIGN PATENT DOCUMENTS

DE	87 08 078.8		10/1987
DE	94 13 813	U1	10/1994
EP	0 406 556	A1	1/1991
EP	1 386 846	A1	2/2004
EP	1 457 425		9/2004
FR	2 699 150		6/1994
FR	2 755 670		5/1998
GB	104 445		3/1917
GB	1 242 356		8/1971
GB	1 489 963		10/1977
GB	1 584 066		2/1981
GB	2 137 172	A	10/1984
GB	2 363 372		12/2001
JP	55 176119		6/1954
JP	50-123654		10/1975
JP	3 17033		2/1991
JP	2010-184713	A	8/2010
JP	2011-084279	A	4/2011
WO	WO 95/28325		10/1995
WO	WO 2006/124643	A1	11/2006
WO	WO 2006/133401		12/2006

* cited by examiner

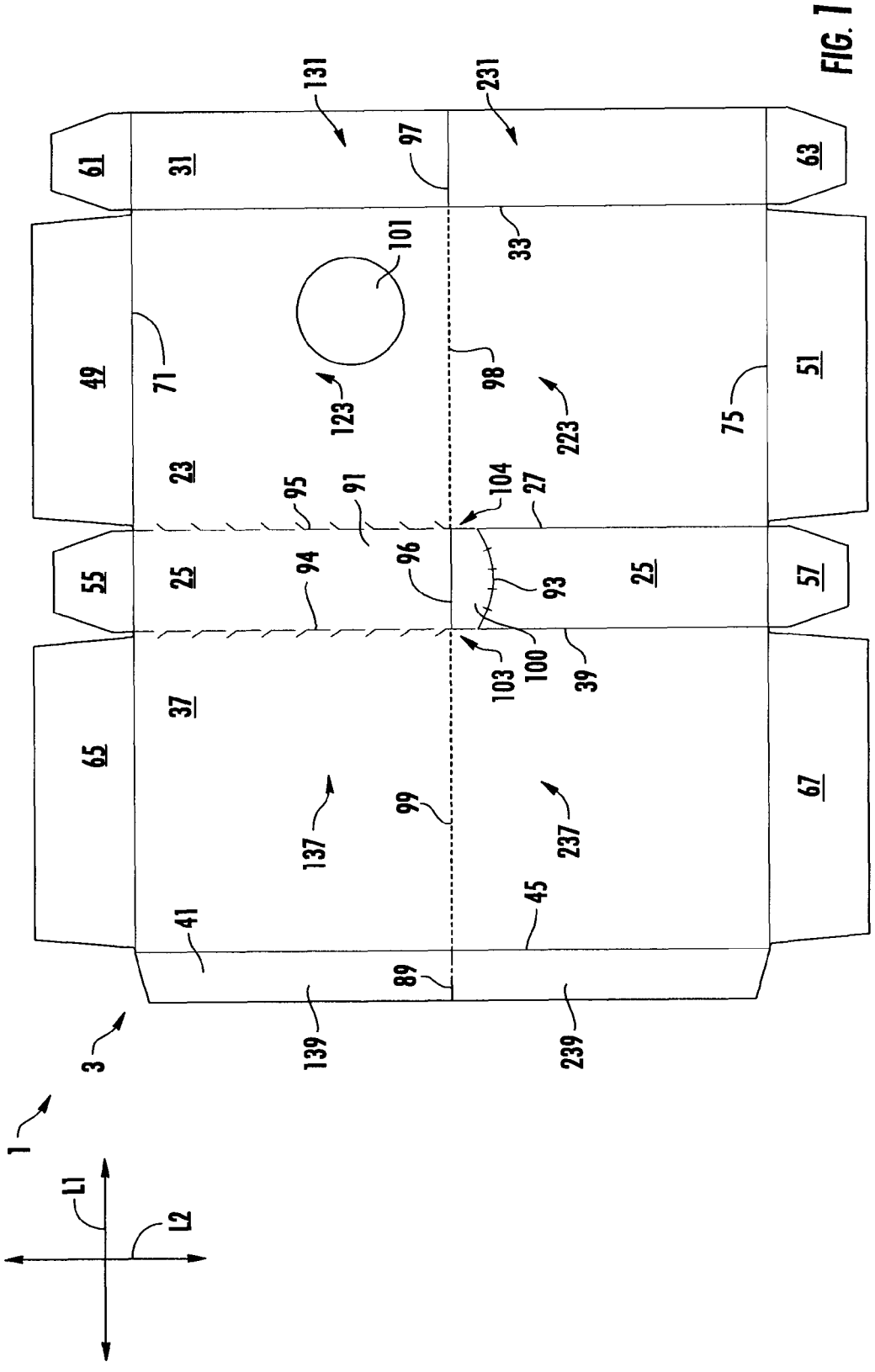

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FIG. 1

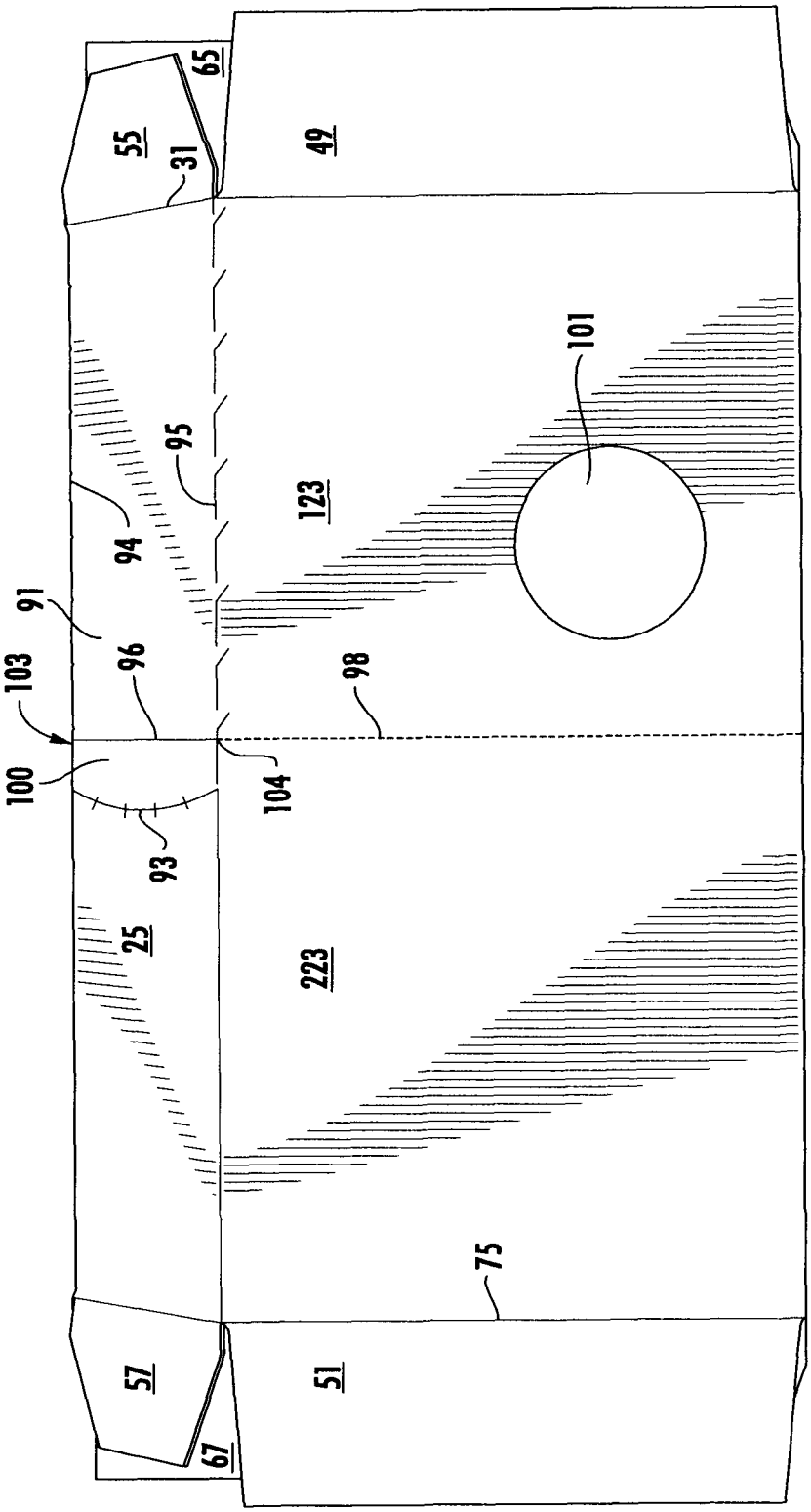

FIG. 2

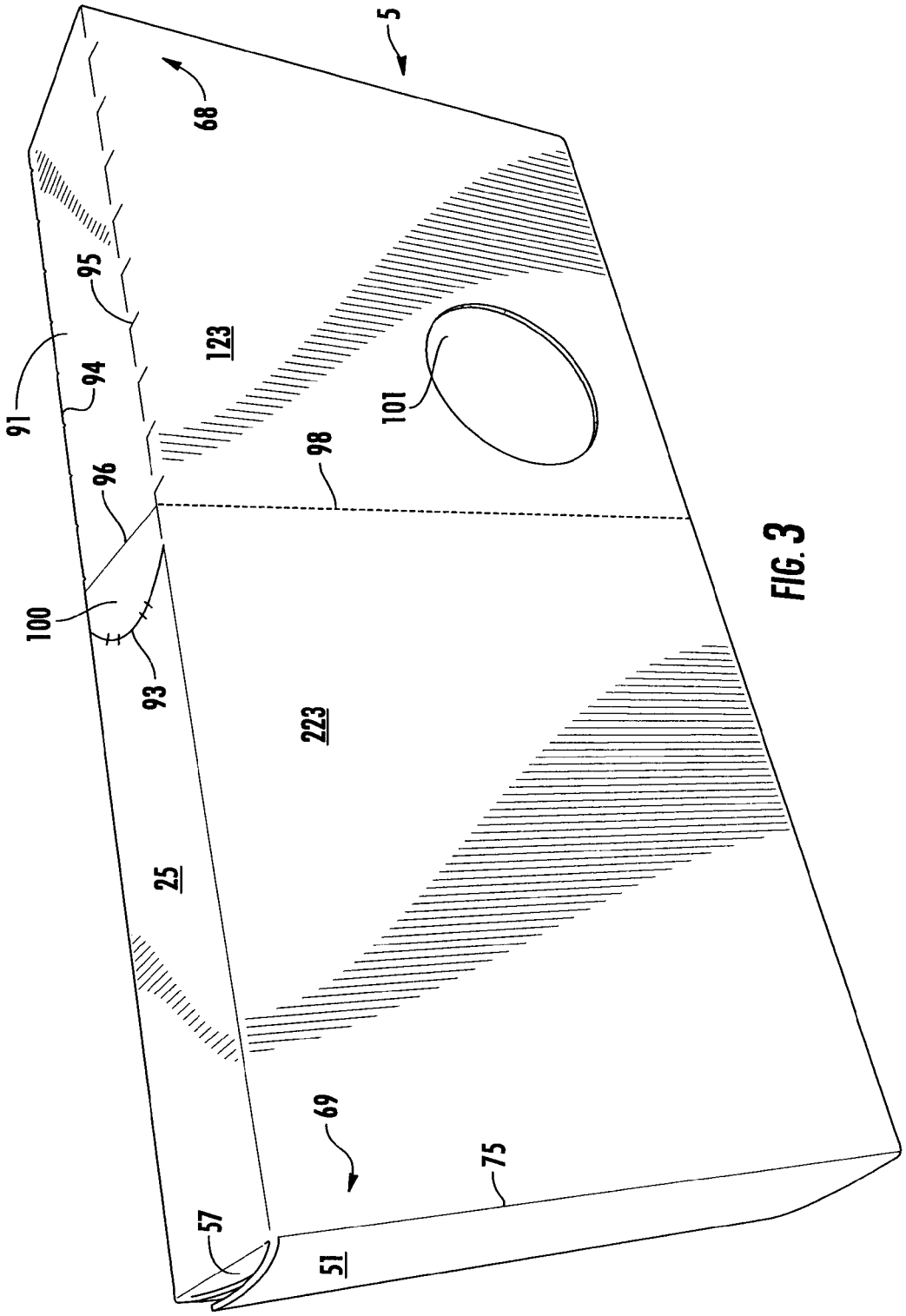

FIG. 3

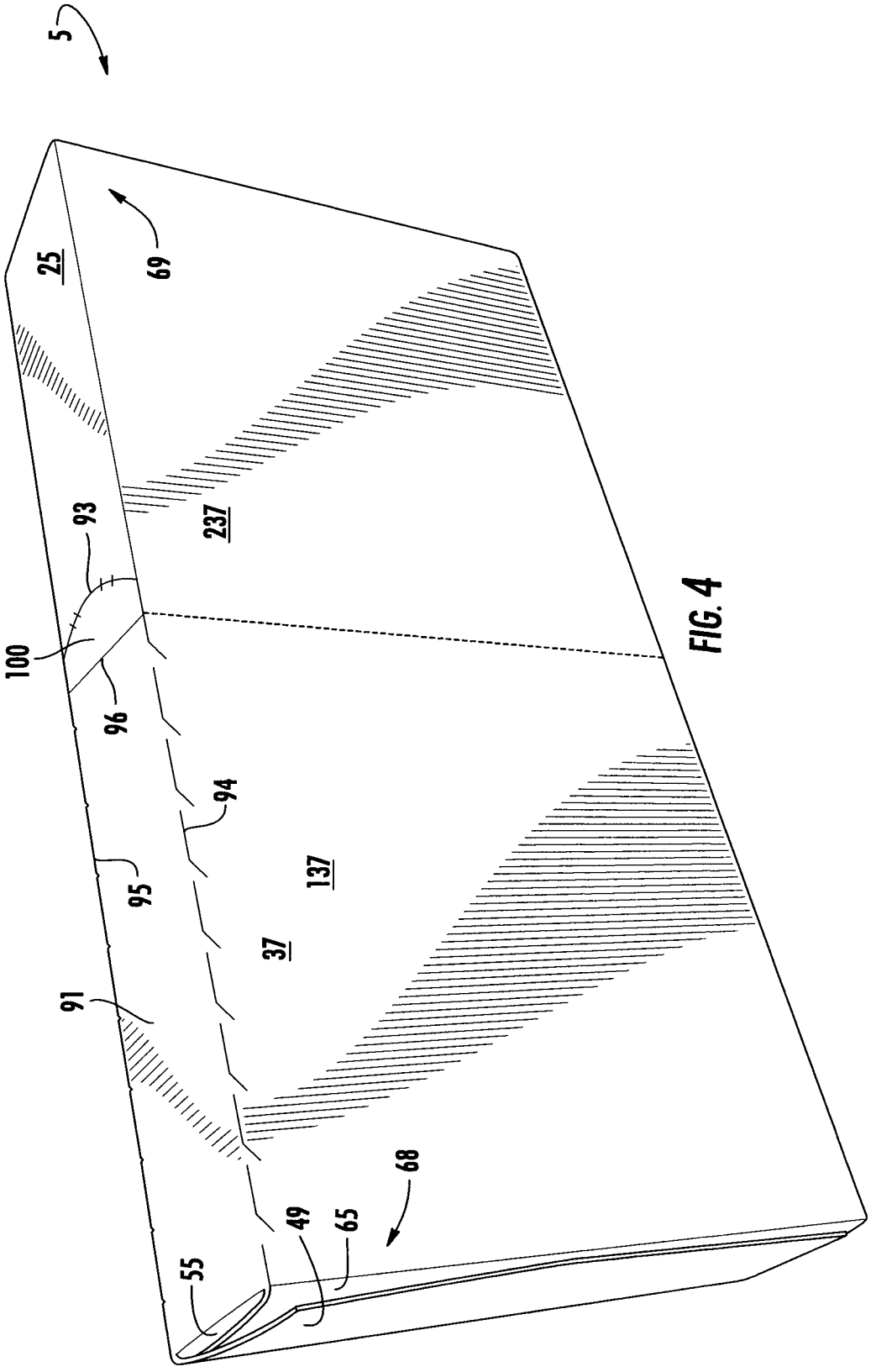

FIG. 4

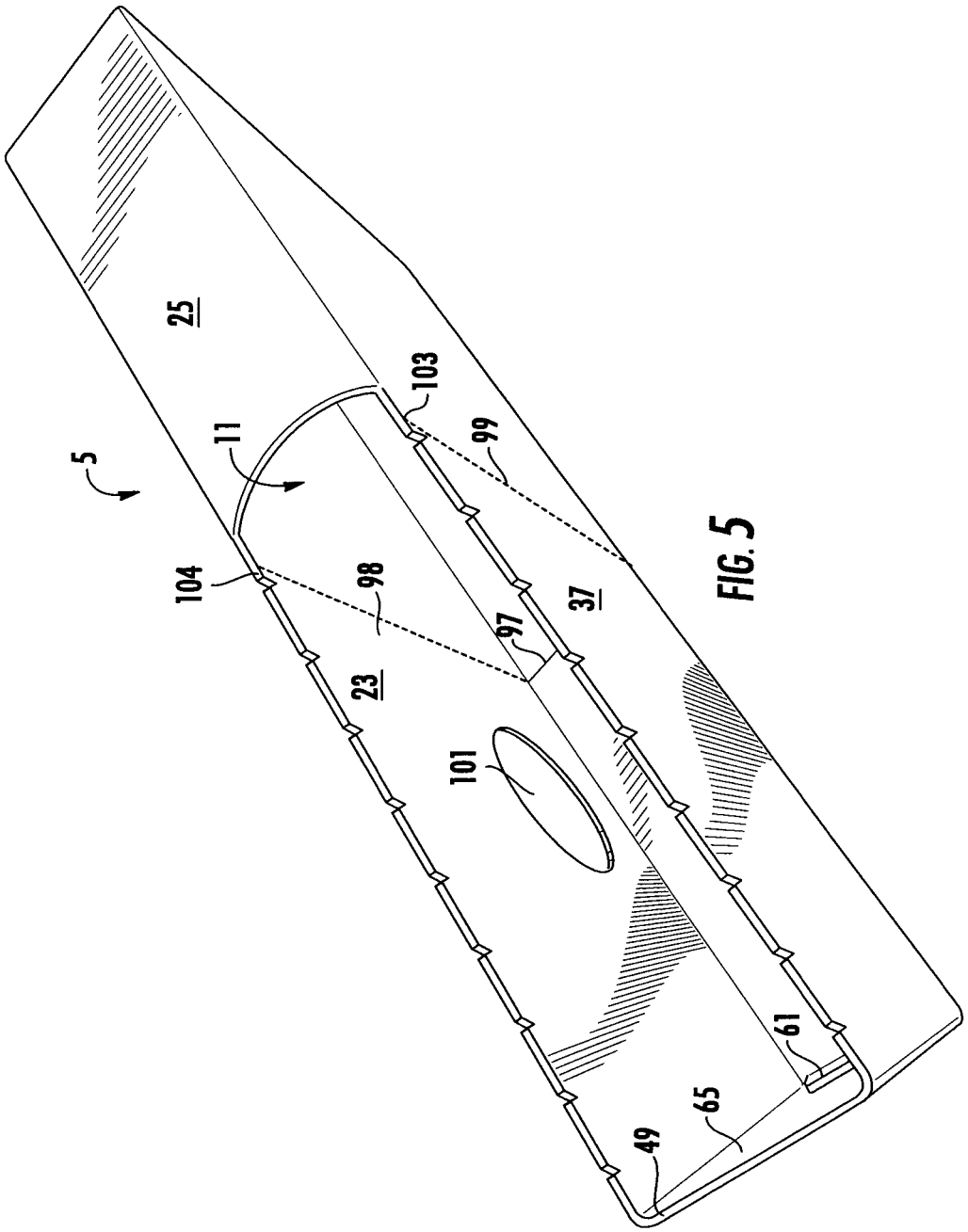

FIG. 5

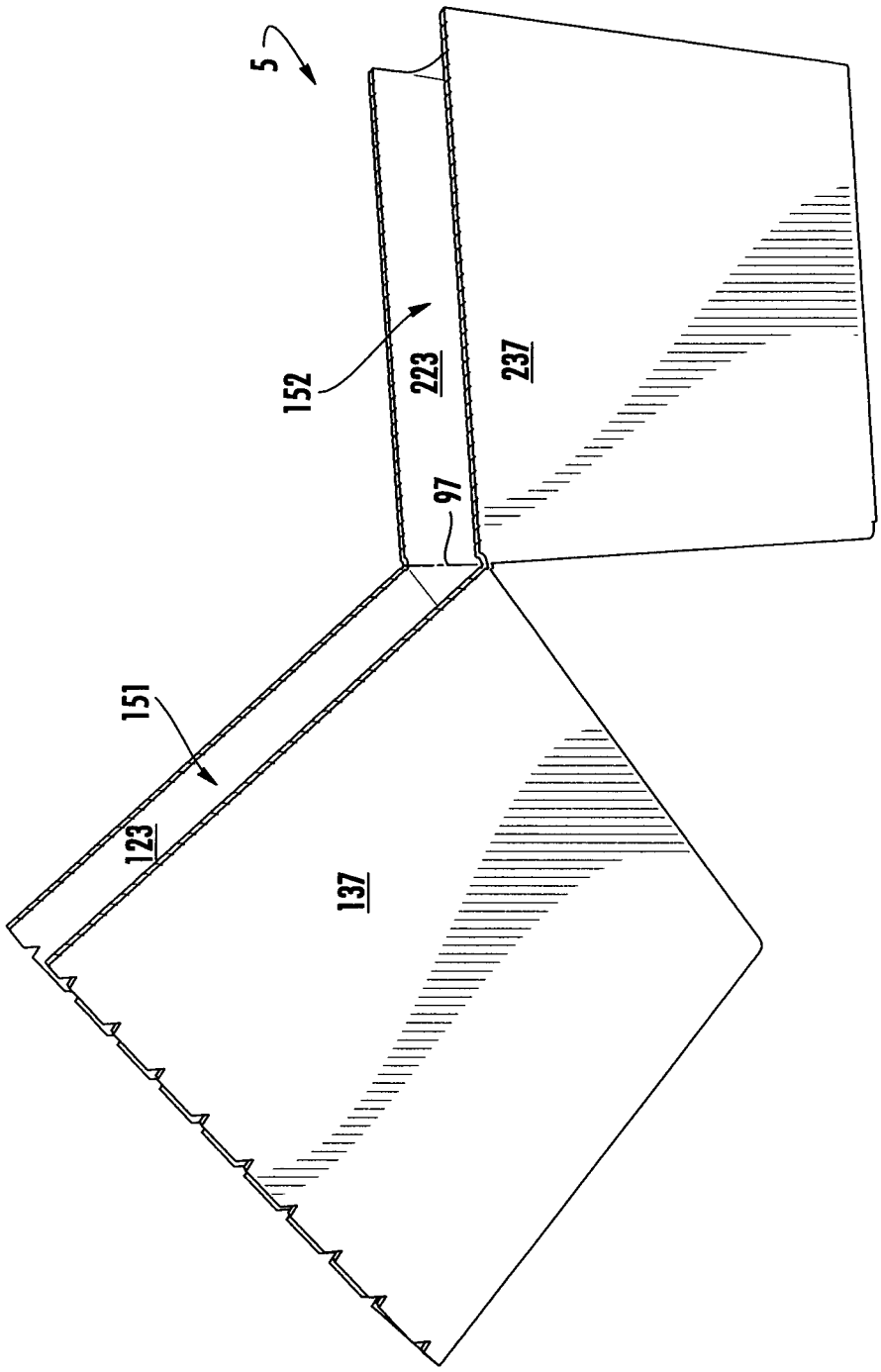

FIG. 6

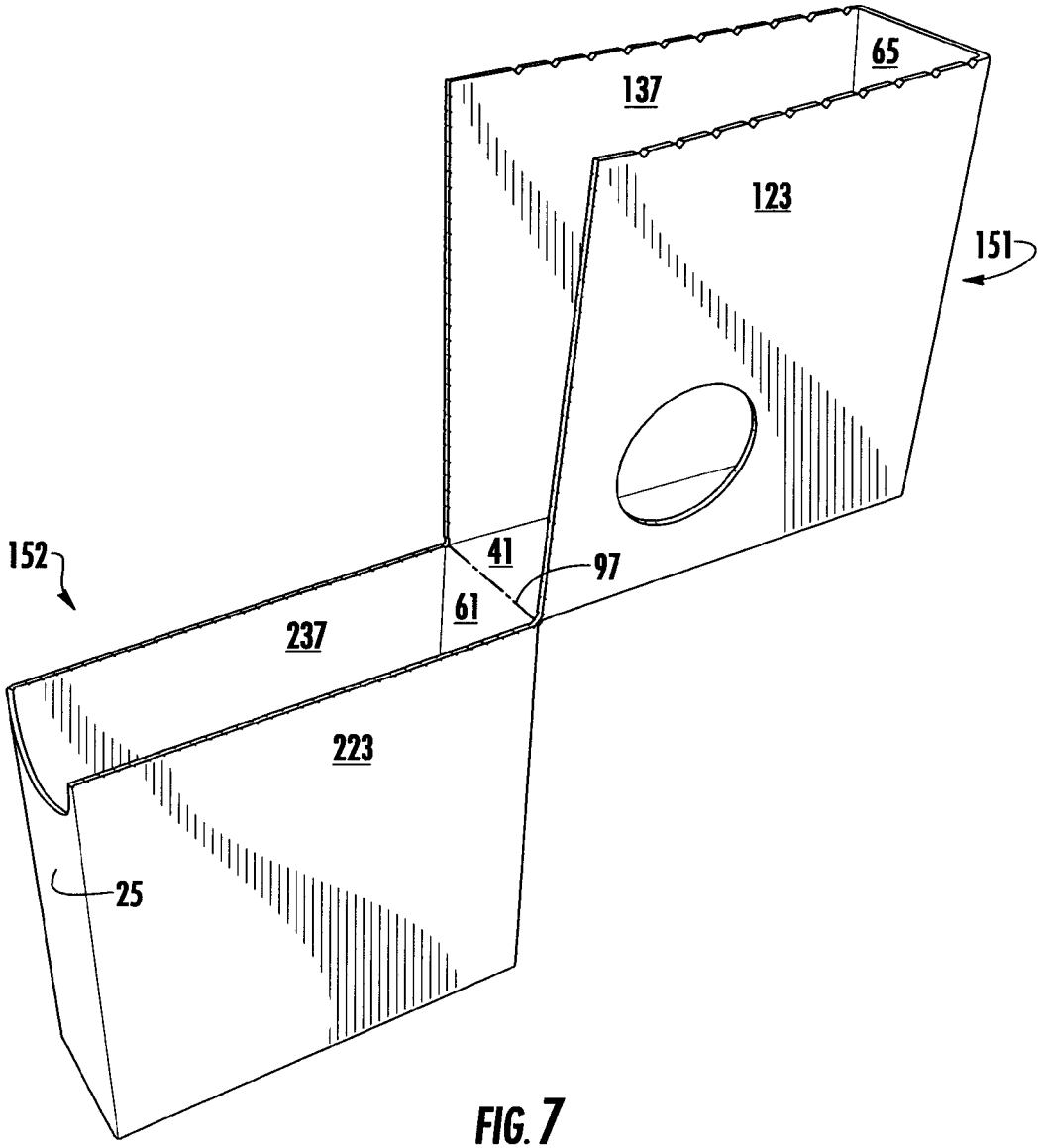

FIG. 7

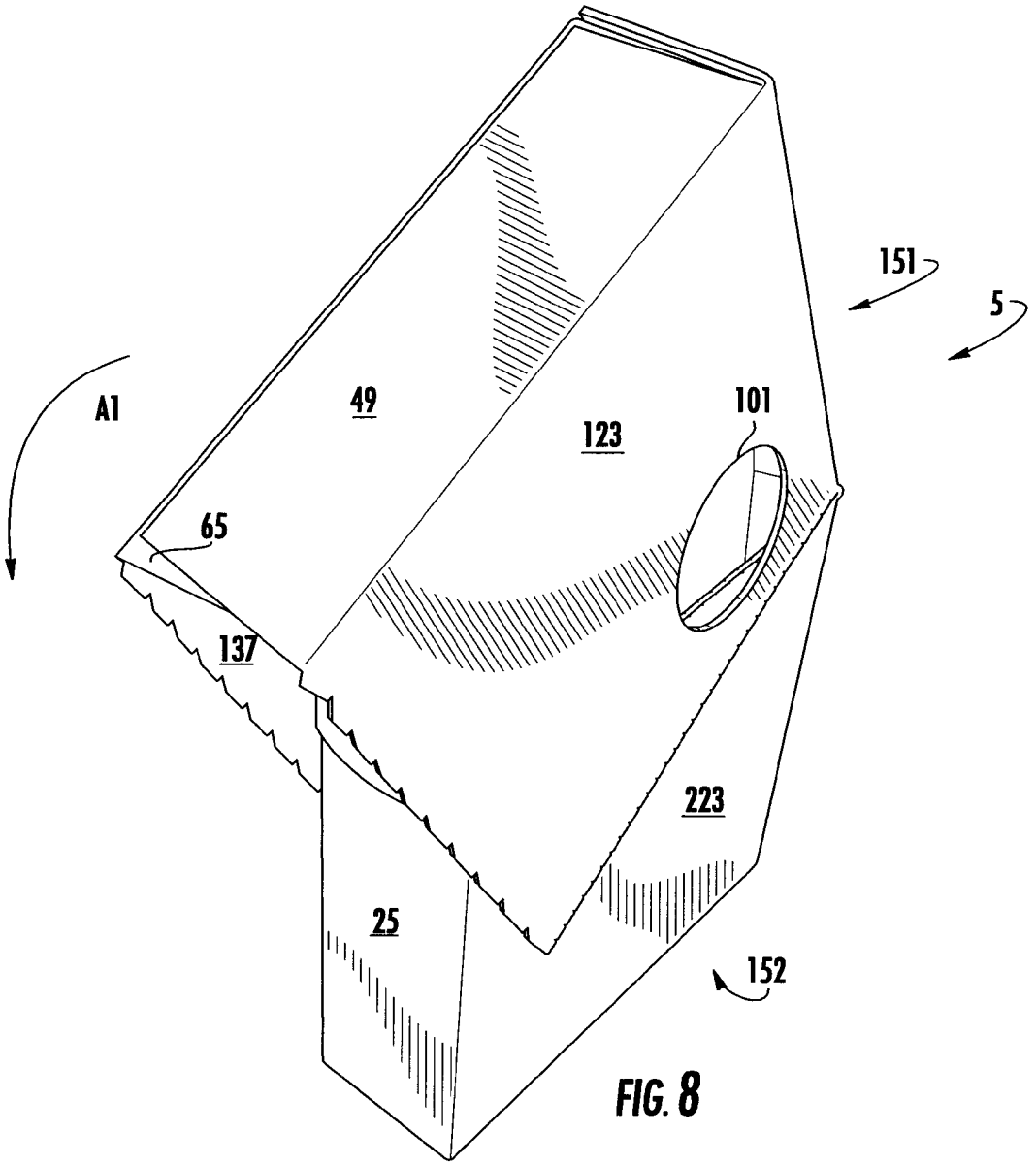

FIG. 8

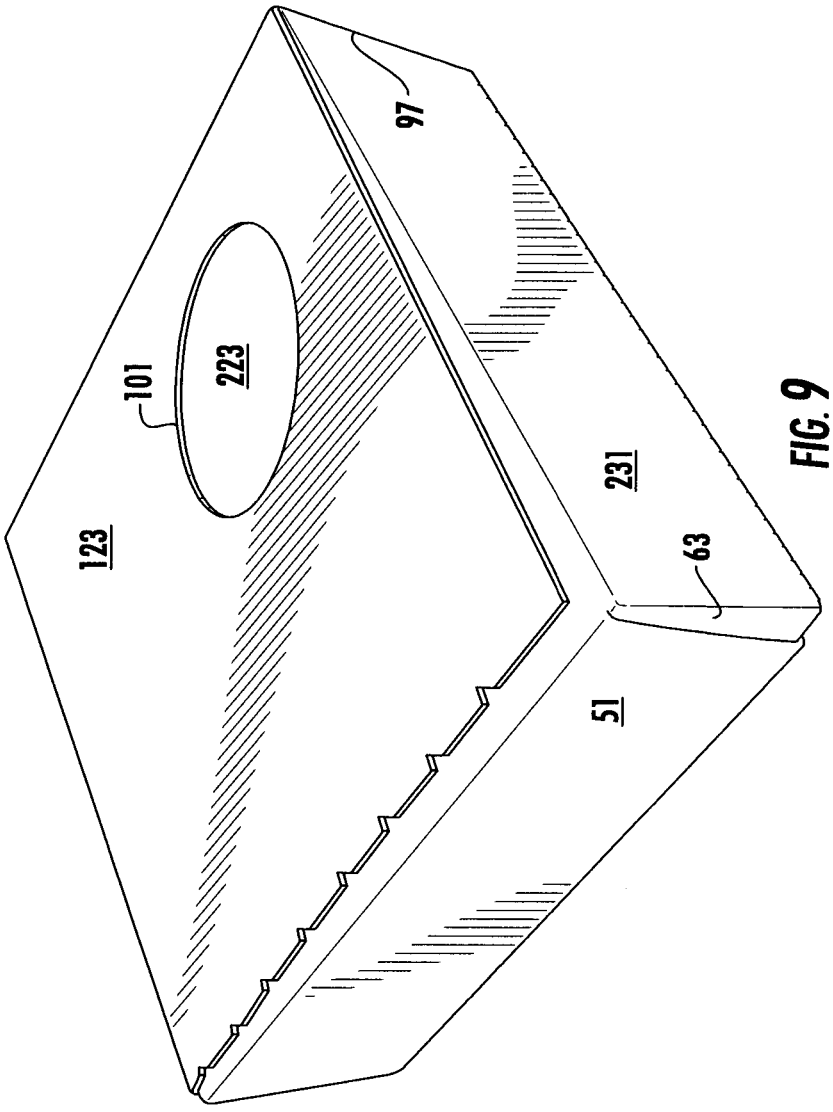

FIG. 9

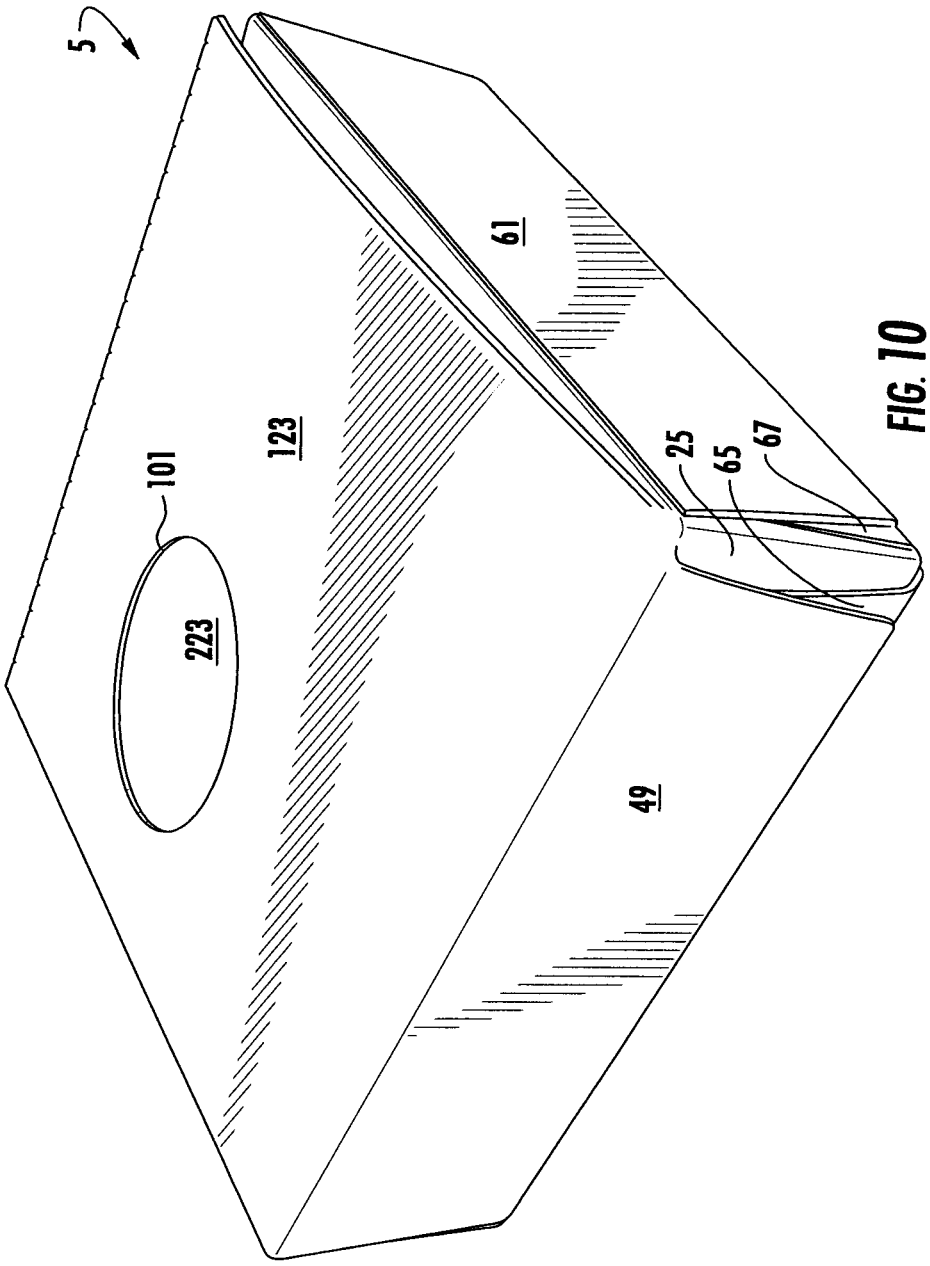

FIG. 10

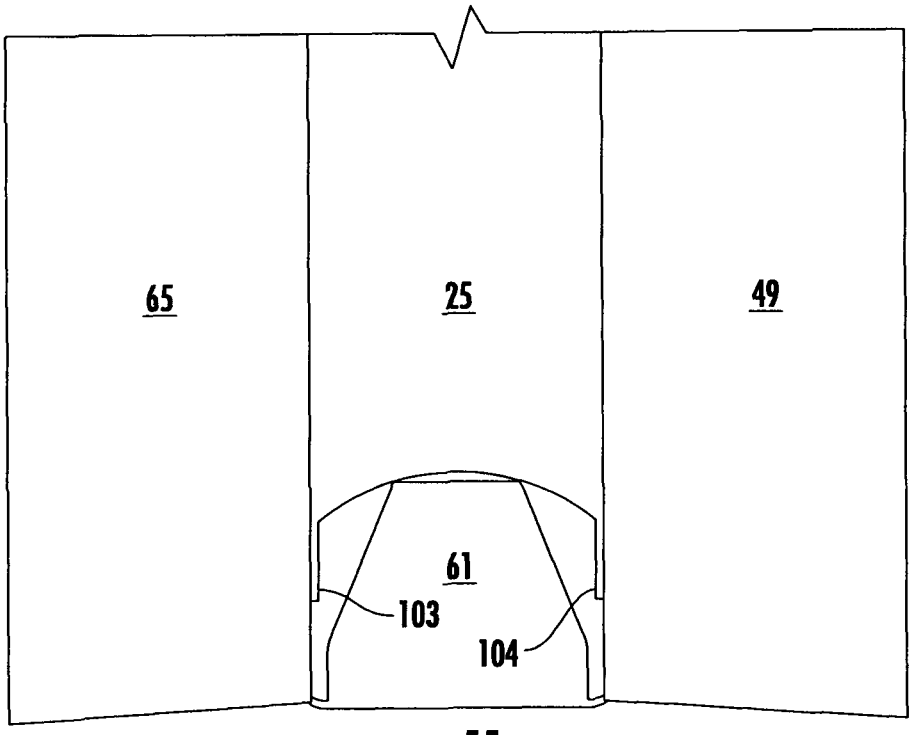

FIG. 11

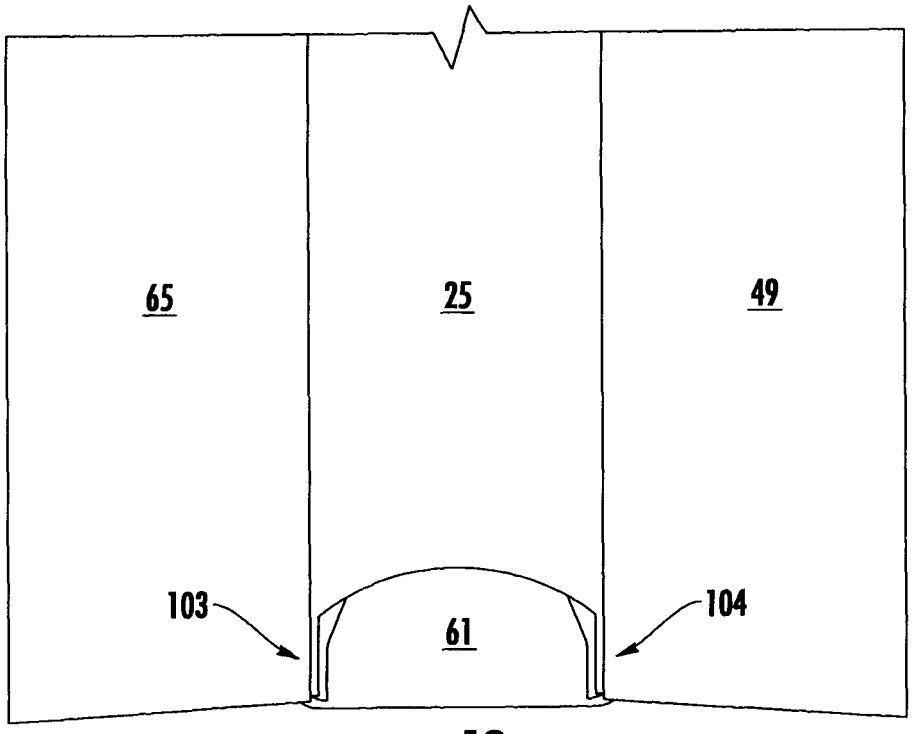

FIG. 12

CARTON WITH RECLOSEABLE FEATURES

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of U.S. Provisional Application No. 61/957,651, which was filed on Jul. 9, 2013.

INCORPORATION BY REFERENCE

U.S. Provisional Application No. 61/957,651, which was filed on Jul. 9, 2013, is hereby incorporated by reference for all purposes as if presented herein in its entirety.

BACKGROUND OF THE DISCLOSURE

The present disclosure generally relates to packages or cartons for holding and dispensing products, such as food products. More specifically, the present disclosure relates to cartons with recloseable features.

SUMMARY OF THE DISCLOSURE

In general, one aspect of the disclosure is generally directed to a carton for holding a product. The carton comprises a plurality of panels that extends at least partially around an interior of the carton, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel. A tear away panel in at least one of the plurality of panels, the tear away panel providing access to the interior. A hinge in at least one of the plurality of panels and at least one tear line extending at least partially across at least one of the plurality of panels. The at least one tear line dividing the carton into a first portion and a second portion. The first portion configured to be pivotable at the hinge between an open position allowing access to the interior and a closed position with the first portion at least partially overlapping the second portion.

One aspect of the disclosure is directed to a blank for forming a carton for containing a product. The blank comprises a plurality of panels, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel. A tear away panel in at least one of the plurality of panels. A hinge in at least one of the plurality of panels and at least one tear line extending at least partially across at least one of the plurality of panels. The at least one tear line dividing blank into a first portion and a second portion. The first portion configured to be pivotable at the hinge between an open position and a closed position with the first portion at least partially overlapping the second portion when the blank is formed into a carton.

In another aspect, the disclosure is generally directed to a method of forming a carton for containing a product. The method comprises obtaining a blank comprising a plurality of panels. The plurality of panels comprises a front panel, a back panel, a first side panel, and a second side panel. A tear away panel is in at least one of the plurality of panels. A hinge is in at least one of the plurality of panels, and at least one tear line extends at least partially across at least one of the plurality of panels. The method comprises forming an interior of the carton at least partially defined by the plurality of panels. The method further comprises accessing the interior of the carton by separating the tear away panel from the carton. The method comprises tearing the carton along the at least one tear line to divide the carton into a first portion and a second portion and to form an open position of the carton. The method further comprises pivoting the first portion at the hinge to a closed position wherein the first portion at least partially overlaps the second portion.

Those skilled in the art will appreciate the above stated advantages and other advantages and benefits of various additional embodiments reading the following detailed description of the embodiments with reference to the below-listed drawing figures.

BRIEF DESCRIPTION OF THE DRAWINGS

According to common practice, the various features of the drawings discussed below are not necessarily drawn to scale. Dimensions of various features and elements in the drawings may be expanded or reduced to more clearly illustrate the embodiments of the disclosure.

FIG. **1** is an exterior plan view of a blank used to form a carton in accordance with a first embodiment of the disclosure.

FIG. **2** is a top view of a carton in the flat configuration formed from the blank of FIG. **1**.

FIG. **3** is a front perspective view of the carton of FIG. **2** fully assembled.

FIG. **4** is a back perspective view of the carton fully assembled.

FIG. **5** is a top perspective view of the carton with a tear strip removed.

FIGS. **6-7** are perspective views of carton in the open configuration.

FIG. **8** is a perspective view of carton in the semi-closed configuration.

FIGS. **9-10** are perspective views of the carton in the closed configuration.

FIGS. **11-12** are perspective views of the corner of the carton illustrating the recloseable features in the closed configuration.

Corresponding parts are designated by corresponding reference numbers throughout the drawings.

DETAILED DESCRIPTION OF THE EXEMPLARY EMBODIMENTS

Cartons or packages according to the present disclosure can accommodate articles of numerous different shapes. For the purpose of illustration and not for the purpose of limiting the scope of the disclosure, the following detailed description describes articles at least partially disposed within the carton embodiments. In one embodiment, the articles held in the carton can be food products, but the articles could be other nonfood products without departing from the disclosure. In this specification, the terms "lower," "bottom," "upper", "top", "front", and "back" indicate orientations determined in relation to fully erected cartons.

FIG. **1** is a plan view of an exterior surface **1** of a blank **3** used to form a carton **5** (FIG. **3**) of a first embodiment of the disclosure. The carton **5** can be configured to hold articles (not shown) such as a plurality of food products (e.g., frozen food products, hamburgers, veggie burgers, waffles, or any other food product) or nonfood products, or any other suitable article or product within an interior **11** (FIG. **5**) of the carton **5**. The carton **5** can include various dispensing features and various opening/closing features without departing from the disclosure.

The blank **3** has a longitudinal axis L**1** extending generally in the direction of the length of the blank and a lateral axis L**2** extending generally in the direction of the width of the blank. The blank **3** includes a front panel **23** foldably connected to a first side panel **25** at a lateral fold line **27**. A second side panel

31 is foldably connected to the front panel 23 at a lateral fold line 33. A back panel 37 is foldably connected to the first side panel 25 at a lateral fold line 39. An attachment flap 41 is foldably connected to the back panel 37 at a lateral fold line 45. Alternatively, the attachment flap 41 could be foldably connected to the second side panel 31.

In the illustrated embodiment, two end flaps 49, 51 are foldably connected to opposite ends of the front panel 23. Two end flaps 55, 57 are foldably connected to opposite ends of the first side panel 25. Two end flaps 61, 63 are foldably connected to opposite ends of the second side panel 31. Two end flaps 65, 67 are foldably connected to opposite ends of the back panel 37. When the carton 5 is erected, the end flaps 49, 55, 61, 65 close a first (e.g., top) end 68 of the carton, and the end flaps 51, 57, 63, 67 close a second (e.g., bottom) end 69 of the carton (FIG. 3). In accordance with an alternative embodiment of the present disclosure, different panel and flap arrangements can be used for closing the carton 5.

The end flaps 49, 55, 65 of the first end 68 extend along a first marginal area of the blank 3, and are foldably connected at a first longitudinal fold line 71 that extends along the length of the blank. The end flaps 51, 57, 63, 67 of the second end 69 extend along a second marginal area of the blank 3, and are foldably connected at a second longitudinal fold line 75 that extends along the length of the blank. The longitudinal fold lines 71, 75 may be, for example, substantially straight, or offset at one or more locations to account for blank thickness or for other factors. The end flaps 49, 55, 65, 51, 57, 63, 67 can be alternatively shaped, arranged, positioned, and/or omitted without departing from the disclosure.

As shown in FIG. 1, a tear away panel 91 is formed from a portion of the first side panel 25. The tear away panel 91 is defined by two lateral tear lines 94, 95 extending from and collinear with the fold lines 39, 27, and an opening feature 93. The opening feature 93 may be an arcuate cut line extending between the front and back panels. The opening feature 93 may have a first end and a second end adjacent the respective two lateral tear lines 94, 95. A tab 100 for gripping and pulling the tear away panel may be defined by the opening feature 93, the two lateral tear lines 94, 95, and a longitudinal fold line 96 extending between the front panel 23 and the back panel 37. When formed into a carton, features 93, 94, 95, and 96 allow removal of the panel 91 and access to the interior of the carton. Furthermore, a fold line or hinge 97 extends across the second side panel 31, effectively dividing it into a first portion 131 and a second portion 231. Similarly, a longitudinal tear line 98 extends across the front panel 23, effectively dividing it into a first front portion 123 and a second front portion 223. Also, a longitudinal tear line 99 extends across the back panel 37, effectively dividing it into a first back portion 137 and a second back portion 237. A longitudinal line of weakening 89 extends across the attachment flap 41, effectively dividing it into a first attachment portion 139 and a second attachment portion 239. The line of weakening 89 may be a fold line or a tear line. Thus, upon tearing away the tear panel 91, the carton may effectively hinge about the fold line 97 and 89. In one embodiment the hinge 97, tear lines 98, 99 and longitudinal fold lines 96, 89 are all collinear. Window 101 on the front panel 23 may aid in viewing the interior of the carton and reopening a closed carton. As illustrated in FIG. 1, the window 101 may be in the first front portion 123, however, the window may be in another panel without departing from the disclosure. When reopening the closed carton, the window 101 may be used as a grip such that a finger may be inserted into the window 101 to move the carton 5 into the open position as shown in FIG. 7. The window 101 may be sustainably circular or any other shape. The opening and closing features and the associated features 89, 91, 93, 94, 95, 97, 98, 99, 101 may be otherwise shaped, arranged, and/or configured without departing from the scope of this disclosure.

As shown in FIGS. 2-12, and described in the following in accordance with one acceptable example, the carton 5 is formed from the blank 3 by folding panels 23, 25, 31, and 37 to at least partially form an interior 11 of the carton 5, for example, by creation of a sleeve (FIG. 2). Attachment flap 41 may receive adhesive or glue and may be affixed to an interior surface of the second side panel 31. Upon formation of the sleeve, the ends 68, 69 of the carton 5 may be closed by inwardly folding and attaching end flaps 49, 55, 61, 65 and 51, 57, 63, 67, respectively. The end flaps 49, 55, 61, 65 and 51, 57, 63, 67 may be attached with glue in some embodiments. The carton may be filled with products to be held therein during any suitable portion of carton formation, for example, through inclusion of a filled liner or multiple filled bags containing a food product.

As shown in FIG. 4, the carton 5 may be initially opened by sliding an object (e.g., a finger) into the opening feature 93 to detach and lift the tab portion 100 and pull away tear panel 91 by tearing at tear lines 94, 95. Thereafter, as shown in FIG. 5, the interior 11 of the carton 5 may be accessed. After the contents of the carton have been partially exhausted, the carton may be configured to hinge about fold line 97 as shown in FIG. 6, by tearing at tear lines 98, 99 to separate portions 123, 223 and to separate portions 137, 237, respectively. To re-close the carton 5 (FIGS. 6-9), a first half or portion 151 of the carton may be pivoted about fold line 97 towards a second half or portion 152 of the carton in the direction of arrow A1 of FIG. 8. As shown in FIG. 9-10, the closed carton 5 is of a reduced size compared to the open carton of FIG. 3. Interior space in the closed position approximates half the size as the interior space in open position. As such, upon use or partial use of the contents of the carton, the carton may be closed to conserve space. To aid in maintaining closure of the carton once closed, corner regions 103, 104 of the panels 223, 237, respectively, may engage complementary corner regions within the interior 11 of the carton adjacent the end flap 61, as shown in FIGS. 11-12. Furthermore, while engaging the corner regions 103, 104, end flap 61 may in some embodiments be guided beneath panel 25 (e.g., towards the interior of the carton) further aiding in maintaining closure. Thus, the end flap 61 acts as a retention feature in the first portion 151 of the carton to retain the carton in the closed position.

Alternative assembling, loading, closing, opening, re-closing, and/or re-opening steps may be used without departing from the scope of the disclosure. For example, the sleeve can be loaded and closed in an automated process, and the ends 68, 69 can be partially closed. Additionally, the carton 5 could be otherwise shaped, arranged, and/or configured without departing from the disclosure. The carton 5 could include various handle features for carrying the carton and could include various dispenser features for opening the carton in manners not herein described. Further the carton 5 could include other panel/flap closing configurations without departing from the disclosure.

The carton 5 has been shown and described by way of example. Any of the features of the various embodiments of the disclosure can be combined with, replaced by, or otherwise configured with other features of other embodiments of the disclosure without departing from the scope of this disclosure.

The blanks according to the present disclosure can be, for example, formed from coated paperboard and similar materials. For example, the interior and/or exterior sides of the blanks can be coated with a clay coating. The clay coating

may then be printed over with product, advertising, price coding, and other information or images. The blanks may then be coated with a varnish to protect any information printed on the blank. The blanks may also be coated with, for example, a moisture barrier layer, on either or both sides of the blank. In accordance with the above-described embodiments, the blanks may be constructed of paperboard of a caliper such that it is heavier and more rigid than ordinary paper. The blanks can also be constructed of other materials, such as cardboard, hard paper, kraft lined paperboard, double kraft lined paperboard, or any other material having properties suitable for enabling the carton to function at least generally as described herein. The blanks can also be laminated or coated with one or more sheet-like materials at selected panels or panel sections.

In accordance with the above-described embodiments of the present disclosure, a fold line can be any substantially linear, although not necessarily straight, form of weakening that facilitates folding therealong. More specifically, but not for the purpose of narrowing the scope of the present disclosure, fold lines include: a score line, such as lines formed with a blunt scoring knife, or the like, which creates a crushed portion in the material along the desired line of weakness; a cut that extends partially into a material along the desired line of weakness, and/or a series of cuts that extend partially into and/or completely through the material along the desired line of weakness; and various combinations of these features.

As an example, a tear line can include: a slit that extends partially into the material along the desired line of weakness, and/or a series of spaced apart slits that extend partially into and/or completely through the material along the desired line of weakness, or various combinations of these features. As a more specific example, one type tear line is in the form of a series of spaced apart slits that extend completely through the material, with adjacent slits being spaced apart slightly so that a nick (e.g., a small somewhat bridging-like piece of the material) is defined between the adjacent slits for typically temporarily connecting the material across the tear line. The nicks are broken during tearing along the tear line. The nicks typically are a relatively small percentage of the tear line, and alternatively the nicks can be omitted from or torn in a tear line such that the tear line is a continuous cut line. That is, it is within the scope of the present disclosure for each of the tear lines to be replaced with a continuous slit, or the like. For example, a cut line can be a continuous slit or could be wider than a slit without departing from the present disclosure.

The above embodiments may be described as having one or more panels adhered together by glue during erection of the carton embodiments. The term "glue" is intended to encompass all manner of adhesives commonly used to secure carton panels in place.

The foregoing description of the disclosure illustrates and describes various exemplary embodiments. Various additions, modifications, changes, etc., could be made to the exemplary embodiments without departing from the spirit and scope of the disclosure. It is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense. Additionally, the disclosure shows and describes only selected embodiments of the disclosure, but the disclosure is capable of use in various other combinations, modifications, and environments and is capable of changes or modifications within the scope of the inventive concept as expressed herein, commensurate with the above teachings, and/or within the skill or knowledge of the relevant art. Furthermore, certain features and characteristics of each embodiment may be selectively interchanged and applied to other illustrated and non-illustrated embodiments of the disclosure.

What is claimed is:

1. A carton for containing a product, the carton comprising:
- a plurality of panels that extends at least partially around an interior of the carton, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel;
- a tear away panel in at least one of the plurality of panels, the tear away panel providing access to the interior;
- a hinge in at least one of the plurality of panels;
- at least one tear line extending at least partially across at least one of the plurality of panels, the at least one tear line dividing the carton into a first portion and a second portion, the first portion configured to be pivotable at the hinge between an open position allowing access to the interior and a closed position preventing access to the interior, the first portion at least partially overlapping the second portion in the closed position.

2. The carton of claim **1**, wherein the hinge is collinear with the at least one tear line.

3. The carton of claim **2**, wherein the hinge extends across the second side panel dividing the second side panel into a first portion and a second portion, the first portion of the carton includes the first portion of the second side panel and the second portion of the carton includes the second portion of the second side panel.

4. The carton of claim **1**, wherein the at least one tear line comprises:
- a first longitudinal tear line extending across the front panel dividing the front panel into a first front portion and a second front portion; and
- a second longitudinal tear line extending across the back panel dividing the back panel into a first back portion and a second back portion,
- the first portion of the carton comprises the first front portion and the first back portion, and the second portion of the carton comprises the second front portion and the second back portion.

5. The carton of claim **4** wherein the hinge, the first longitudinal tear line, and the second longitudinal tear line are collinear.

6. The carton of claim **1**, wherein the carton further comprises a first end and a second end, a plurality of end flaps are foldably attached to respective panels of the plurality of panels, the plurality of end flaps close the first end and the second end.

7. The carton of claim **6**, wherein one of the end flaps is configured to form a retention feature of the first portion of the carton, the retention feature engages an edge of the second portion of the carton to retain the carton in the closed position.

8. The carton of claim **1**, wherein the interior of the carton has a first size in the open position and the interior of the carton has a second size in the closed position, the second size being less than the first size.

9. The carton of claim **8**, wherein the second size is approximately half the first size.

10. A carton for containing a product, the carton comprising:
- a plurality of panels that extends at least partially around an interior of the carton, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel;
- a tear away panel in at least one of the plurality of panels, the tear away panel providing access to the interior;
- a hinge in at least one of the plurality of panels;

at least one tear line extending at least partially across at least one of the plurality of panels, the at least one tear line dividing the carton into a first portion and a second portion, the first portion configured to be pivotable at the hinge between an open position allowing access to the interior and a closed position with the first portion at least partially overlapping the second portion,

wherein the tear away panel comprises an opening feature in the first side panel configured for detaching and pulling away the tear away panel to access the interior of the carton.

11. The carton of claim **10**, wherein the opening feature comprises a tab at one end of the tear away panel defined by a cut and a fold line in the at least one plurality of panels.

12. The carton of claim **11**, wherein the fold line is collinear with the at least one tear line.

13. A carton for containing a product, the carton comprising:

a plurality of panels that extends at least partially around an interior of the carton, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel;

a tear away panel in at least one of the plurality of panels, the tear away panel providing access to the interior;

a hinge in at least one of the plurality of panels;

at least one tear line extending at least partially across at least one of the plurality of panels, the at least one tear line dividing the carton into a first portion and a second portion, the first portion configured to be pivotable at the hinge between an open position allowing access to the interior and a closed position with the first portion at least partially overlapping the second portion,

wherein the tear away panel is in the first side panel and defined at least partially by a first lateral tear line and a second lateral tear line.

14. The carton of claim **13**, wherein the front panel is foldably connected to the first side panel along a first fold line, the back panel is foldably connected to the first side panel along a second fold line, the first lateral tear line is collinear with the first fold line and the second lateral tear line is collinear with the second fold line.

15. The carton of claim **14**, wherein the front panel comprises a window to view the interior of the carton.

16. A blank for forming a carton for containing a product, the blank comprising:

a plurality of panels, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel;

a tear away panel in at least one of the plurality of panels,

a hinge in at least one of the plurality of panels;

at least one tear line extending at least partially across at least one of the plurality of panels, the at least one tear line dividing the blank into a first portion and a second portion, the first portion configured to be pivotable at the hinge between an open position and a closed position preventing access to an interior of the carton, the first portion at least partially overlapping the second portion in the closed position when the blank is formed into a carton.

17. The blank of claim **16**, wherein the hinge is collinear with the at least one tear line.

18. The blank of claim **17**, wherein the hinge extends across the second side panel dividing the second side panel into a first portion and a second portion, the first portion of the carton includes the first portion of the second side panel and the second portion of the carton includes the second portion of the second side panel.

19. The blank of claim **16**, wherein the at least one tear line comprises:

a first longitudinal tear line extending across the front panel dividing the front panel into a first front portion and a second front portion; and

a second longitudinal tear line extending across the back panel dividing the back panel into a first back portion and a second back portion,

the first portion of the blank comprises the first front portion and the first back portion, and the second portion of the blank comprises the second front portion and the second back portion.

20. The blank of claim **19**, wherein the hinge, the first longitudinal tear line, and the second longitudinal tear line are collinear.

21. The blank of claim **16**, wherein the blank further comprises a first end and a second end, a plurality of end flaps are foldably attached to respective panels of the plurality of panels, the plurality of end flaps are configured to close the first end and the second end when the blank is formed into a carton.

22. The blank of claim **21**, wherein one of the end flaps is configured to form a retention feature of the first portion when the blank is formed into a carton, the retention feature engages an edge of the second portion to retain the carton in the closed position when the blank is formed into a carton.

23. A blank for forming a carton for containing a product, the blank comprising:

a plurality of panels, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel;

a tear away panel in at least one of the plurality of panels,

a hinge in at least one of the plurality of panels;

at least one tear line extending at least partially across at least one of the plurality of panels, the at least one tear line dividing the blank into a first portion and a second portion, the first portion configured to be pivotable at the hinge between an open position and a closed position with the first portion at least partially overlapping the second portion when the blank is formed into a carton,

wherein the tear away panel comprises an opening feature in the first side panel configured for detaching and pulling away the tear away panel to access the interior when the carton is formed from the blank.

24. The blank of claim **23**, wherein the opening feature comprises a tab at one end of the tear away panel defined by a cut and a fold line in the at least one plurality of panels.

25. The blank of claim **24**, wherein the fold line is collinear with the at least one tear line.

26. A blank for forming a carton for containing a product, the blank comprising:

a plurality of panels, the plurality of panels comprises a front panel, a back panel, a first side panel and a second side panel;

a tear away panel in the first side panel and defined at least partially by a first lateral tear line and a second lateral tear line;

a hinge in at least one of the plurality of panels;

at least one tear line extending at least partially across at least one of the plurality of panels, the at least one tear line dividing the blank into a first portion and a second portion, the first portion configured to be pivotable at the hinge between an open position and a closed position with the first portion at least partially overlapping the second portion when the blank is formed into a carton.

27. The blank of claim **26**, wherein the front panel is foldably connected to the first side panel along a first fold line,

the back panel is foldably connected to the first side panel along a second fold line, the first lateral tear line is collinear with the first fold line and the second lateral tear line is collinear with the second fold line.

28. The blank of claim **27**, wherein the front panel comprises a window to view the interior of the carton.

29. A method of forming a carton for containing a product, the method comprising:

obtaining a blank comprising a plurality of panels, the plurality of panels comprises a front panel, a back panel, a first side panel, a second side panel, a tear away panel in at least one of the plurality of panels, a hinge in at least one of the plurality of panels, and at least one tear line extending at least partially across at least one of the plurality of panels;

forming an interior of the carton at least partially defined by the plurality of panels;

accessing the interior of the carton by separating the tear away panel from the carton; and

tearing the carton along the at least one tear line to divide the carton into a first portion and a second portion and form an open position of the carton;

pivoting the first portion at the hinge to a closed position wherein the first portion at least partially overlaps the second portion preventing access to the interior.

30. The method of claim **29**, wherein the tear away panel comprises an opening feature in the first side panel configured for detaching and pulling away the tear away panel to access the interior of the carton.

31. The method of claim **29**, wherein the forming the interior comprises forming the interior with a first size at the open position, the pivoting the first portion comprises reducing the interior to a second size that is less than the first size.

32. The method of claim **31**, further comprising removing a food product prior to the pivoting the first portion to the closed position.

33. A method of forming a carton for containing a product, the method comprising:

obtaining a blank comprising a plurality of panels, the plurality of panels comprises a front panel, a back panel, a first side panel, a second side panel, a tear away panel, a hinge in at least one of the plurality of panels, and at least one tear line extending at least partially across at least one of the plurality of panels, wherein the tear away panel comprises an opening feature in the first side panel configured for detaching and pulling away the tear away panel to access the interior of the carton, the tear away panel is in the first side panel and defined at least partially by a first lateral tear line and a second lateral tear line;

forming an interior of the carton at least partially defined by the plurality of panels;

accessing the interior of the carton by separating the tear away panel from the carton; and

tearing the carton along the at least one tear line to divide the carton into a first portion and a second portion and form an open position of the carton;

pivoting the first portion at the hinge to a closed position wherein the first portion at least partially overlaps the second portion.

34. The method of claim **33**, wherein the front panel is foldably connected to the first side panel along a first fold line, the back panel is foldably connected to the first side panel along a second fold line, the first lateral tear line is collinear with the first fold line and the second lateral tear line is collinear with the second fold line.

35. The method of claim **34**, wherein the at least one tear line comprises:

a first longitudinal tear line extending across the front panel dividing the front panel into a first front portion and a second front portion; and

a second longitudinal tear line extending across the back panel dividing the back panel into a first back portion and a second back portion,

the first portion of the carton comprises the first front portion and the first back portion, and the second portion of the carton comprises the second front portion and the second back portion.

36. The method of claim **35** wherein the carton further comprises a first end and a second end, a plurality of end flaps are foldably attached to respective panels of the plurality of panels, the plurality of end flaps close the first end and the second end; one of the end flaps is configured to form a retention feature of the first portion of the carton, the retention feature engages an edge of the second portion of the carton to retain the carton in the closed position; the carton further comprises an attachment flap foldably connected to the back panel.

37. The method of claim **36** wherein the plurality of end flaps comprises:

a first end flap foldably connected the second side panel along a first edge.

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